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## **CLAIMS**

- 1. A polynucleotide comprising at least 17 contiguous nucleotides from the 26-nucleotide sequence of SEQ ID NO: 1.
- 2. A polynucleotide according to claim 1 comprising at least 18 contiguous nucleotides from the 26-nucleotide sequence of SEQ ID NO: 1.
- 3. A polynucleotide according to claim 1 comprising at least 20 contiguous nucleotides from the 26-nucleotide sequence of SEQ ID NO: 1.
  - 4. A polynucleotide according to claim 1 comprising the sequence of SEQ ID NO: 1.
- 5. A polynucleotide comprising at least 17 contiguous nucleotides from the 26-nucleotide sequence of SEQ ID NO: 2.
  - 6. A polynucleotide according to claim 5 comprising at least 18 contiguous nucleotides from the 26-nucleotide sequence of SEQ ID NO: 2.
- 7. A polynucleotide according to claim 5 comprising at least 20 contiguous nucleotides from the 26-nucleotide sequence of SEQ ID NO: 2.
  - 8. A polynucleotide according to claim 5 comprising the sequence of SEQ ID NO: 2.
- A polynucleotide according to any of the preceding claims comprising the sequence of SEQ ID NO: 8.
  - 10. An insect resistant plant comprising a VIP3A protein and a polynucleotide according to any of claims 1 to 9.
  - 11. A plant according to claim 10 which is a cotton plant.

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- 12. An insecticidal cotton plant according to claim 11 which is derived from the COT202 event.
- 13. A method of detecting plant material derived from the COT202 event comprising:
  - (a) obtaining a sample for analysis;
  - (b) providing DNA from the sample;
  - (c) providing a pair of primers designed to bind to a polynucleotide as claimed in claims 1 to 9 when said polynucleotide is single stranded;
  - (d) amplifying the region which lies between the sites at which the primers bind; and
- (e) detecting the presence of the amplification product;
  whereby the presence of the amplification product is indicative that the sample is derived from the COT202 event.
- 14. A method according to claim 13 wherein the first primer has the sequence of SEQ ID NO: 3 and the second primer has the sequence of SEQ ID NO: 4.
  - 15. A method of detecting plant material derived from the COT202 event comprising:
    - (a) obtaining a sample for analysis;
    - (b) providing a probe designed to bind to the complement of a polynucleotide as claimed in claims 1 to 9 when said polynucleotide is single stranded;
    - (c) hybridising said probe with the sample; and
    - (d) detecting whether the probe has hybridised; whereby the hybridisation of the probe is indicative that the sample is derived from the COT202 event.
  - 16. A method according to claim 15 wherein the sequence of the probe is selected from the group comprising SEQ ID NO: 7 and SEQ ID NO: 8.
- 17. A method according to claims 15 or 16 wherein the probe hybridises to the sample under stringent hybridisation conditions.
  - 18. A method of detecting plant material derived from the COT202 event comprising:
    - (a) obtaining a sample for analysis;

- (b) providing an antibody designed to bind to a VIP protein contained within a plant according to claims 10 to 12;
- (c) incubating said antibody with the sample; and
- (d) detecting whether the antibody has bound;
- whereby the presence of antibody which has bound is indicative that the sample is derived from the COT202 event.
  - 19. A method of detecting plant material derived from the COT202 event comprising:
    - (a) obtaining a sample for analysis;
- 10 (b) making a protein extract of the sample;
  - (c) providing a test strip designed to detect the presence of a VIP protein present within the sample;
  - (d) incubating the test strip with the sample; and
  - (e) detecting whether VIP protein is present;
- wherein the presence of VIP protein is indicative that the sample is derived from the COT202 event.
  - 20. A method according to claim 18 or 19 wherein the VIP protein has the sequence of SEQ ID NO: 9.

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- 21. A method of detecting plant material derived from the COT202 event comprising:
  - (a) obtaining a sample for analysis;
  - (b) subjecting one or more insects of the species Spodoptera frugiperda to the sample;
  - (c) subjecting one or more insects of species Ostrinia nubilalis to the sample as a control;
  - (d) detecting whether the sample has an insecticidal effect on insects from each species; and
  - (e) comparing the results with an authentic COT202 bioassay profile.
- 22. A kit of parts comprising a means for detecting the presence in a sample of plant material derived from the COT202 event.

- 23. A kit of parts according to claim 22 comprising a means for detecting the presence in a sample of a polynucleotide according to claims 1 to 9, or a protein encoded by a polynucleotide according to claims 1 to 9, or a VIP protein.
- 5 24. A kit of parts according to claims 22 or 23 comprising in the form of instructions one or more of the methods according to claims 13 to 21.
  - 25. Use of the nucleotide sequences according to any one of claims 1 to 9 in a method of detecting the COT202 event.